# TJ Pavaritpong

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### **EDUCATION**

## University of Illinois Urbana-Champaign

B.S. in Statistics & Computer Science; GPA: 3.52 / 4.00; ACT: 34/36

Relevant Coursework: Algorithms, Computer Systems, Database Systems, Numerical Methods, Statistical Modeling

#### EXPERIENCE

Quant Illinois

Sep 2023 – Present

Expected Graduation: Dec 2024

Quantitative Trader

• Researching and implementing statistical arbitrage strategies for cryptocurrencies for student-run investment fund

**Agoda** Jan 2023 – Jun 2023

Data Engineer Intern

- Migrated 12 Google Ads API report downloader applications across teams, leveraging Hadoop, Spark, Hive,
   Scala, and GitLab CI/CD to efficiently process data for the millions of keywords.
- $\bullet \ \ {\rm Optimized\ algorithm\ performance,\ reducing\ application\ runtime\ by\ a\ linear\ factor\ from\ 4\ hours\ to\ 20\ minutes$
- Resolved 2 critical production incidents caused by incorrect data returned from the Google Ads API
- Created a Slack bot to explain SQL and Spark ETL pipelines to stakeholders using Python & GPT-3
- Devised & implemented a data validation rule in SQL to improve anomaly detection; Backtested using RStudio.

 $\mathbf{Zipmex} \qquad \qquad \mathbf{Jun} \ 2022 - \mathbf{Jul} \ 2022$ 

Software Engineer Intern (Frontend)

- Created and styled new **React** UI components to match Figma designs for trading-related pages, contributing to a website revamp and light theme release
- Refactored legacy UI components into reusable React/Material-UI components, enhancing visual consistency
- Improved code quality & debugging by enhancing type inference in the React & Redux codebase with TypeScript

Central Group

Jun 2019 – Aug 2019

Software Engineer Intern (Mobile)

- Identified inefficiencies within retail store and warehouse operations, leading to targeted improvements
- Streamlined warehouse processes across 200 service points by integrating Scandit's barcode-scanning library into the employees' mobile app, written in **Ionic** and **Angular**, to enable instant bulk-scanning of shipment labels
- Leveraged **Tesseract.js**' optical character recognition (OCR) to enable product information extraction from receipts and shelf tag verification and correction
- Optimized text recognition of the Thai alphabet and numerals by tuning image-processing settings

# PROJECTS

Peer2Pair: Community Finder for Hobbies | React, Node.js, MySQL, Azure, LivePeer

Jan 2023

• Led a beginner hackathon team to create a web app that helps match people with similar interests working towards the same goals. Used LivePeer, a blockchain video broadcasting network, as part of the backend.

Illini CC'd: Credit Card Recommender | React, Node.js, MySQL, GCP, Material-UI

Sep - Dec 2022

- Led the project and created the whole React front-end UI
- Collaborated with a team to design the database schema, scrape the web for credit card offers and benefits, develop API endpoints, and host the application on Google Cloud Platform

Blackjack Simulator | C++, Catch2, Cinder

June 2022

• Developed a 2D blackjack simulator designed to train players in optimal strategy

## SKILLS

Languages: Python, SQL, R, Scala, C, JavaScript, HTML, CSS

Frameworks & Libraries: React, Node.js, Apache Spark, NumPy, pandas, matplotlib

Developer Tools: Git, Linux/Unix, Docker, Tableau, Agile/Scrum Methodology